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10/673,698	09/29/2003	Tong-Ming Lee	15436.187	4165
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Workman Nydegger 1000 Eagle Gate Tower 60 East South Temple Salt Lake City, UT 84111				
EXAMINER				
PICH, PONNOREAY				
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

**Application No.**

10/673,698

**Applicant(s)**

LEE ET AL.

**Examiner**

PONNOREAY PICH

**Art Unit**

2435

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 9/6/07.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 31-47 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 31-47 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SI/309)  
Paper No(s)/Mail Date 9/07
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

### **DETAILED ACTION**

Claims 1-30 were cancelled. Newly added claims 31-47 were examined.

#### ***Information Disclosure Statement***

The IDS submitted on 9/6/07 was considered.

#### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 31, 33, 35-38, 41-45, and 47 are rejected under 35 U.S.C. 102(b) as being anticipated by Balogh (US 2001/0023446).

#### **Claim 31:**

Balogh discloses:

1. Displaying an interface for keyset profile management in a network (paragraphs 36 and 42), the interface including:
  - a. A user-selectable option to select a keyset profile (i.e. information set), the selected keyset profile including a plurality of keysets associated with access points in a wireless network (paragraphs 27, 33, and 36).
  - b. A user-selectable option to select a keyset from the plurality of keysets in the selected keyset profile (paragraphs 27, 29, 36, and 42). *Note that each information set can have multiple keys, each of which can be considered a keyset profile. Balogh's invention further provides for a way*

*for the user to modify settings in the information set, which would include modifying a particular key in the information set. This means the user would be able to use the user interface to select and modify the keys stored in the information set. Different keys for different sub-networks could also be chosen.*

**Claim 33:**

Balogh further discloses wherein the interface further includes a keyset editing region that includes information regarding one or more keys in the selected keyset (Fig 2 and paragraphs 27 and 42).

**Claim 35:**

Balogh further discloses wherein the keyset editing region includes an option to add and/or update data associated with the selected keyset (paragraphs 27 and 42).

**Claim 36:**

Balogh further discloses wherein the interface further includes an option to associate a keyset with a selected keyset profile (paragraphs 42 and Fig 2).

The keyset profile could be referred to by name in Balogh's invention. Since the user can edit the specific key referred to by a name, the user has the option to associate the specific key with a specific name.

**Claim 37:**

Balogh further discloses wherein the associated keyset is user-defined through the interface (paragraph 42).

**Claim 38:**

Balogh further discloses wherein the associated keyset is user-selected through the interface (paragraphs 27, 36, 38, and 42).

**Claim 41:**

Balogh further discloses wherein the plurality of keysets in the selected keyset profile are associated with access points in a plurality of wireless networks (paragraphs 21 and 24 and Fig 4).

**Claims 42 and 43:**

Balogh discloses a method and a computer readable medium having instructions being adapted to carry out the method of:

1. Decrypting, using a keyset profile, data captured by the wireless network analyzer from a plurality of access points in a wireless network (Fig 4 and paragraphs 22 and 27).
2. Displaying an interface adapted for management of the keyset profiles (paragraphs 33 and 42).
3. Wherein the displayed interface comprises user-selectable options to manage the keyset profile and to manage a keyset from among a plurality of keyset sin the keyset profile (paragraphs 33 and 42).

**Claims 44 and 47:**

Balogh discloses a method and a computer readable medium having instructions being adapted to carry out the method of:

1. Receiving a first user selection indicating a keyset profile (paragraphs 27, 33, and 36).

2. Receiving a second user selection indicating a keyset from among a plurality of keysets in the selected keyset profile (paragraphs 27, 29, 36, and 42).
3. Capturing data at a wireless network analyzer (paragraph 35 and Fig 4).
4. Decrypting the captured data using the selected keyset (Fig 4 and paragraphs 22 and 27).

**Claim 45:**

Balogh further discloses wherein the captured data is decrypted in real time (paragraph 22). WEP provides for real time decryption of data in a wireless network.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 32, 34, 40 and 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Balogh (US 2001/0023446) in view of Klein (US 7,103,661).

**Claim 32:**

Balogh further discloses wherein the option to select the keyset comprises a keyset list and an option to set a keyset shown in the keyset list as the selected keyset (paragraphs 27, 36, and 42).

The limitation of displaying, through the interface, information regarding the selected keyset in response to user selection of the keyset is disclosed by Klein (Fig 6a). At the time applicant's invention was made, it would have been obvious to one skilled in the art to modify Balogh's invention according to the limitations recited in claim 32 to display information regarding the selected keyset in response to the user selection of the keyset. One skilled would have been motivated to do so because it would allow the user to make an informed decision when attempting to modify a keyset, thus preventing accidental modification of the wrong keyset.

**Claim 34:**

As per the limitation of wherein the information regarding one or more keys in the selected keyset includes a user-editable list of keys in the selected keyset, it is disclosed by Klein (Fig 6a). At the time applicant's invention was made, it would have been obvious to one skilled in the art to modify Balogh's invention according to the limitations recited in claim 34. One skilled would have been motivated to provide the information regarding the one or more keys in the selected keysets in a user-editable list because use of a list to organize information for presentation to a user is an obvious design choice. Note that in Balogh's invention, the user is allowed to view and change the settings in an information set (paragraph 42), thus some way of presenting the keyset to the user for view and editing must already be used.

**Claim 40:**

As per the limitation of wherein the interface further includes a user-selectable option to unselect the selected keyset (Fig 6a and Fig 10). At the time applicant's

invention was made, it would have been obvious to modify Balogh's invention so as to include a user-selectable option to unselect the selected keyset. One skilled would have been motivated to do so because providing an unselect feature to any user interface allows accidental selections to be undone.

**Claim 46:**

The limitation of wherein receiving the second user selection includes displaying, to a user, a keyset list comprising the plurality of keysets in the selected keyset profile is disclosed by Klein (Fig 6a). At the time applicant's invention was made, it would have been obvious to one skilled in the art to modify Balogh's invention according to the limitations recited in claim 46. One skilled would have been motivated to display a keyset list upon second user selection because it would allow the user to easily see which keys are available for edit and/or selection.

Claim 39 is rejected under 35 U.S.C. 103(a) as being unpatentable over Balogh (US 2001/0023446).

**Claim 39**

Balogh does not explicitly disclose wherein the interface further includes a user-selectable option to delete the selected keyset. However, official notice is taken that having the option to delete a specific setting was well known in the art at the time applicant's invention was made. It would have been obvious to one skilled in the art to



provide Balogh's user interface with a user-selectable option to delete the selected keyset. One skilled would have been motivated to do so because deletion of an option is a standard feature in any interface that allows for modification of the options.

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **PONNOREAY PICH** whose telephone number is (571)272-7962. The examiner can normally be reached on 9:00am-4:30pm Mon-Thurs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 571-272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ponnoreay Pich/  
Examiner, Art Unit 2435